



SEQUENCE LISTING

<110> Deo, Yashwan
Keler, Tibor
Treml, John
Endres, Michael

<120> HUMAN MONOCLONAL ANTIBODIES TO DENDRITIC
CELLS

<130> MXI-166CPRCE

<140> 10/035,637

<141> 2001-11-07

<150> 09/851,614

<151> 2001-03-08

<150> USSN 60/203,126

<151> 2000-05-08

<150> USSN 60/230,739

<151> 2000-09-07

<160> 9

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)...(321)

<400> 1

gac atc cag atg acc cag tct cca tcc tca ctg tct gca tct gta gga	48
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly	
1 5 10 15	

gac aga gtc acc atc act tgt cgg gcg agt cag ggt att agc agg tgg	96
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Arg Trp	
20 25 30	

tta gcc tgg tat cag cag aaa cca gag aaa gcc cct aag tcc ctg atc	144
Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile	
35 40 45	

tat gct gca tcc agt ttg caa agt ggg gtc cca tca agg ttc agc ggc	192
Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly	
50 55 60	

agt gga tct ggg aca gat ttc act ctc acc atc agc ggc ctg cag cct	240
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Gly Leu Gln Pro	
65 70 75 80	

gaa gat ttt gca act tat tac tgc caa cag tat aat agt tac cct cgg	288
Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Arg	
85 90 95	

acg ttc ggc caa ggg acc aag gtg gaa atc aaa
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

321

<210> 2
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 2
 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
 1 5 10 15
 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Arg Trp
 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys Ala Pro Lys Ser Leu Ile
 35 40 45
 Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Gly Leu Gln Pro
 65 70 75 80
 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Pro Arg
 85 90 95
 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 3
 <211> 348
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1) ... (348)

<400> 3
 gag gtg cag ctg gtg cag tct gga gca gag gtg aaa aag ccc ggg gag 48
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 tct ctg agg atc tcc tgt aag ggt tct gga gac agt ttt acc acc tac 96
 Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Asp Ser Phe Thr Thr Tyr
 20 25 30
 tgg atc ggc tgg gtg cgc cag atg ccc ggg aaa ggc ctg gag tgg atg 144
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 ggg atc atc tat cct ggt gac tct gat acc ata tac agc ccg tcc ttc 192
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Ile Tyr Ser Pro Ser Phe
 50 55 60
 caa ggc cag gtc acc atc tca gcc gac aag tcc atc agc acc gcc tac 240
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 ctg cag tgg agc agc ctg aag gcc tcg gac acc gcc atg tat tac tgt 288
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95

acg aga ggg gac cgg ggc gtt gac tac tgg ggc cag gga acc ctg gtc 336
 Thr Arg Gly Asp Arg Gly Val Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110

acc gtc tcc tca 348
 Thr Val Ser Ser
 115

<210> 4
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 4
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu
 1 5 10 15
 Ser Leu Arg Ile Ser Cys Lys Gly Ser Gly Asp Ser Phe Thr Thr Tyr
 20 25 30
 Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met
 35 40 45
 Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Ile Tyr Ser Pro Ser Phe
 50 55 60
 Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr
 65 70 75 80
 Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys
 85 90 95
 Thr Arg Gly Asp Arg Gly Val Asp Tyr Trp Gly Gln Gly Thr Leu Val
 100 105 110
 Thr Val Ser Ser
 115

<210> 5
 <211> 15
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(15)
 <223> Xaa = Any Amino Acid

<400> 5
 Asp Asp Xaa Xaa Gln Phe Leu Ile Xaa Xaa Glu Asp Xaa Lys Arg
 1 5 10 15

<210> 6
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 6
 Leu Asp Thr Arg Gln Phe Leu Ile Tyr Asn Glu Asp His Lys Arg
 1 5 10 15

<210> 7
 <211> 20

MXI-166CPRCE

<212> PRT
<213> Homo sapiens

<400> 7
Leu Leu Asp Thr Arg Gln Phe Leu Ile Tyr Leu Glu Asp Thr Lys Arg
1 5 10 15
Cys Val Asp Ala
20

<210> 8
<211> 23770
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (16489)...(17094)

<400> 8
cgatgtacgg gccagatata cgcggttgaca ttgattattg actagttatt aatagtaatc 60
aattacgggg gctacatgcc cggctctatat gcgcaactgt aactaataac tgatcaataa 120
ttatcattag ttaatgcccc tcattagttc atagcccata tatggagtgc cgcggttacat 180
aacttacggt aaatggcccc cctggctgac agtaatcaag tatcgggtat atacctcaag 240
gcgcaatgta ttgaatgcc tttaccgggc ggaccgactg cgcccaacga cccccgcca 300
ttgacgtcaa taatgacgta tgttcccata gtaacgcaa tagggacttt gcgggttgct 360
gggggcggtt aactgcagtt attactgcat acaagggtat cattgcggtt atccctgaaa 420
ccattgacgt caatgggtgg agtatttacg gtaaacgtcc cacttggcag tacatcaagt 480
gtatcatatg ggtaactgca gttaccacc tcataaatgc catttgacgg gtgaaccgtc 540
atgtagtcca catagtatac ccaagtacgc ccctattga cgtcaatgac ggtaaattggc 600
ccgctggca ttatgcccag tacatgacct gggtcatgcy ggggataact gcagttactg 660
ccatttaccg ggcggaccgt aatacgggtc atgtactgga tatgggactt tcctacttgg 720
cagtacatct acgtattagt catcgctatt accatgggtga tgcggttttg ataccctgaa 780
aggatgaacc gtcattgtaga tgcataatca gtagcgataa tgggtaccact acgcaaaac 840
gcagtacatc aatgggcgtg gatagcgggt tgactcacgg ggatttccaa gtctccaccc 900
cattgacgtc cgtcatgtag ttaccgcgac ctatcgccaa actgagtgcc cctaaagggt 960
cagaggtggg gtaactgcag aatgggaggt tgttttgcca ccaaatcaa cgggactttc 1020
caaatgtcg taacaactcc gccccattga ttaccctcaa acaaaaccgt ggttttagtt 1080
gccctgaaag gttttacagc attgttgagg cggggtaact cgcaaatggg cggtaggcgt 1140
gtacgggtgg aggtctatat aagcagagct ctctggctaa ctagagaacc gcgtttaccc 1200
gccatccgca catgccaccc tccagatata ttcgtctcga gagaccgatt gatctcttgg 1260
cactgcttac tggtttatcg aaattaatac gactcactat agggagaccc aagctgatcc 1320
actagtaacg gtgacgaatg accgaatagc tttaattatg ctgagtata tccctctggg 1380
ttcgactagg tgatcattgc gccgccagtg tgctggaatt agcttgccgc caccatggga 1440
tggagctgta tcatcctgtt cctcgtggcc cggcggtcac acgaccttaa tcgaacggcg 1500
gtggtaccct acctcgacat agtaggacaa ggagaccgg acagcaaccg gtgtccactc 1560
cgacatccag atgaccagct ctccatcctc actgtctgca tctgtaggag tgtcgttggc 1620
cacaggtgag gctgtaggtc tactgggtca gaggtaggag tgacagacgt agacatcctc 1680
acagagtcac catcacttgt cgggcgagtc agggatttag cagggtggtta gcctgggtatc 1740
agcagaaacc tgtctcagtg gtagtgaaca gcccgctcag tcccataatc gtccaccaat 1800
cggaccatag tcgtcttttg agagaaagcc cctaagtccc tgatctatgc tgcattccag 1860
ttgcaaagtg ggggtcccatc aagggttcagc tctctttcgg ggattcaggg actagatacg 1920
acgtagggtca aacgtttcac cccagggtag ttccaagtgc ggcagtggtat ctgggacaga 1980
tttactctc accatcagcg gcctgcagcc tgaagatttt gcaacttatt ccgtcaccta 2040
gacctgtct aaagttagag tggtagtcgc cggacgtcgg acttctaaaa cgttgaataa 2100
actgccaa caataatagt taccctcgga cgttcggcca agggaccaag gtggaaatca 2160
aacgtacggt tgacggttgt catattatca atgggagcct gcaagccggg tccctgggtc 2220
cacctttagt ttgcatgcca ggcggcgcca tctgtcttca tcttcccgcc atctgatgag 2280
cagttgaaat ctggaactgc ctctgttgtg ccgcccggt agacagaagt agaaggcgcg 2340
tagactactc gtcaacttta gaccttgacg gagacaacac tgctgtgta ataacttcta 2400
tcccagagag gccaaagtac agtggaaggt ggataacgcc ctccaatcgg acggacgact 2460
tattgaagat aggtctctc cggtttcatg tcaccttcca cctattgcgg gaggttagcc 2520

gtaactccca	ggagagtgtc	acagagcagg	acagcaagga	cagcacctac	agcctcagca	2580
gcaccctgac	cattgagggt	cctctcacag	tgtctcgtec	tgtcggttcc	gtcgtggatg	2640
tcggagtcgt	cgtgggactg	gctgagcaaa	gcagactacg	agaaacacaa	agtctacgcc	2700
tgcaagtca	cccatcaggg	cctgagctcg	cgactcgttt	cgtctgatgc	tctttgtgtt	2760
tcagatgcgg	acgcttcagt	gggtagtccc	ggactcgagc	cccgtcacaa	agagcttcaa	2820
caggggagag	tgttagggat	ccactagtcc	agtgtgggtg	aattctgcag	gggcagtgtt	2880
tctcgaagtt	gtccccctct	acaatcccta	ggtgatcagg	tcacaccacc	ttaagacgtc	2940
atatccagca	cagtggcggc	cggccgctcg	actattctat	agtgtcacct	aaatgctaga	3000
gctcgctgat	tataggtcgt	gtcaccgcgg	gccggcgagc	tgataagata	tcacagtgga	3060
tttacgatct	cgagcgacta	cagcctcgac	tgtgccttct	agttgccagc	catctggtgt	3120
ttgcccctcc	cccgtgcett	ccttgaccct	gtcggagctg	acacggaaga	tcaacggtcg	3180
gtagacaaca	aacggggagg	gggcacggaa	ggaactggga	ggaaggtgcc	actccactg	3240
tccttttcta	ataaaatgag	gaaattgcat	cgcattgtct	gagtaggtgt	ccttccacgg	3300
tgagggtgac	aggaaaggat	tattttactc	ctttaacgta	gcgtaacaga	ctcatccaca	3360
cattctatct	tgggggggtg	ggtggggcag	gacagcaagg	gggaggattg	ggaagacaat	3420
agcaggcatg	gtaagataag	acccccccacc	ccaccccgct	ctgtcgttcc	ccctcctaac	3480
ccttctgtta	tcgtccgtac	ctgggggatgc	ggtgggctct	atggccttctg	aggcggaag	3540
aaccagcttg	ggctctaggg	ggtatcccca	gacccctacg	ccacccgaga	taccgaagac	3600
tcgcctcttc	ttggtcgacc	ccgagatccc	ccataggggt	cgcgcctctg	agcggcgcat	3660
taagcgcggc	gggtgtgggt	gttacgcgca	gcgtgaccgc	tacacttgcc	gcgcgggaca	3720
tcgccgcgta	attcgcgcgc	cccacaccac	caatgcgcgt	cgcactggcg	atgtgaacgg	3780
agcgccttag	cgcccgctcc	tttcgctttc	ttcccttctc	ttctcgccac	gttcgcgggc	3840
tttccccgct	tcgcgggatc	gcgggcgagg	aaagcgaaag	aaggggaagga	aagagcgggtg	3900
caagcggccg	aaaggggcag	aagctctaaa	tcgggggctc	cctttaggggt	tccgatttag	3960
tgctttacgg	cacctcgacc	ccaaaaaact	ttcgagattt	agcccccgag	ggaaatccca	4020
aggctaaatc	acgaaatgcc	gtggagctgg	ggttttttga	tgattaggggt	gatggttcac	4080
gtagtgggcc	atcgccctga	tagacggttt	ttcgcccttt	gacgttggag	actaatccca	4140
ctaccaagtg	catcaccctg	tagcgggact	atctgccaaa	aagcgggaaa	ctgcaacctc	4200
tccacgttct	ttaatatgtg	actcttggtc	caaactggaa	caacactcaa	ccctatctcg	4260
gtctattctt	aggtgcaaga	aattatcacc	tgagaacaag	gtttgacctt	gttgtgagtt	4320
gggatagagc	cagataagaa	ttgatttata	agggattttg	ccgatttcgg	cctattgggt	4380
aaaaaatgag	ctgattttaac	aaaaatttaa	aactaaatat	tccctaaaac	ggctaaagcc	4440
ggataaccaa	ttttttactc	gactaaattg	tttttaaatt	cgcgaattaa	ttctgtggaa	4500
tgtgtgtcag	ttaggggtgtg	gaaagtcccc	aggctcccca	gcaggcagaa	gcgcttaatt	4560
aagacacctt	acacacagtc	aatcccacac	ctttcagggg	tccgaggggt	cgtccgtctt	4620
gatgcaaag	catgcatctc	aattagtcag	caaccaggtg	tggaaagtcc	ccaggctccc	4680
cagcaggcag	catagctttc	gtacgtagag	ttaatcagtc	gttgggtccac	acctttcagg	4740
ggtcgcgagg	gtcgtccgtc	aagtatgcaa	agcatgcata	tcaattagtc	agcaaccata	4800
gtcccgcgcc	taactccgcc	catcccgcgc	ttcatacgtt	tcgtacgtag	agttaatcag	4860
tcgttggtat	cagggcgggg	attgaggcgg	gtagggcggg	ctaactccgc	ccagttccgc	4920
ccattctccg	ccccatggct	gactaatttt	ttttatttat	gcagaggccg	gattgaggcg	4980
ggtcaaggcg	ggtaagaggc	ggggtagcca	ctgattaaaa	aaaataaata	cgtctccggc	5040
aggccgcctc	tgccctctgag	ctattccaga	agtagtgagg	aggctttttt	ggaggccctag	5100
gctttttgca	tccggcgagg	acgggagactc	gataaggtct	tcatacactcc	tccgaaaaaa	5160
cctccggatc	cgaaaacgtt	aaagctcccc	ggagcttgta	tatccatttt	cggatctgat	5220
caagagacag	gatgaggatc	gtttcgcatg	tttcgagggc	cctcgaacat	ataggtaaaa	5280
gcctagacta	gttctctgtc	ctactcctag	caaagcgtac	attgaacaag	atggattgca	5340
cgcaggttct	cgggcgcgtt	gggtggagag	gctattcggc	tatgactggg	taacttggtc	5400
tacctaacgt	gcgtccaaga	ggccggcgaa	cccacctctc	cgataagccg	atactgacct	5460
cacaacagac	aatcggctgc	tctgatgccg	ccgtgttccg	gctgtcagcg	caggggcgcc	5520
cggttctttt	gtgttgctctg	ttagccgacg	agactacggc	ggcacaaggc	cgacagtcgc	5580
gtccccgcgg	gccaagaaaa	tgtcaagacc	gacctgtccg	gtgccctgaa	tgaactgcag	5640
gacgaggcag	cgcggctatc	gtggctggcc	acagttcttg	ctggacaggc	cacgggactt	5700
acttgacgtc	ctgctccgtc	gcgcgcatag	caccgaccgg	acgacgggcg	ttccttgccg	5760
agctgtgctc	gagcttgctc	ctgaagcggg	aagggactgg	ctgctatttg	tgctgcccgc	5820
aaggaacgcg	tcgacacgag	ctgcaacagt	gaactcgccc	ttccctgacc	gacgataacc	5880
gcgaagtgcc	ggggcaggat	ctcctgtcat	ctcaccttgc	tcctgccgag	aaagtatcca	5940
tcattggctga	cgcttcacgg	ccccgtccta	gaggacagta	gagtggaaacg	aggacggctc	6000
tttcataggt	agtaccgact	tgcaatgcgg	cggctgcata	cgcttgatcc	ggctacctgc	6060
ccattcgacc	accaagcgaa	acatcgcatc	acgttacgcc	gccgacgtat	gcgaactagg	6120
ccgatggacg	ggtaagctgg	tggttcgcctt	tgtagcgtag	gagcgagcac	gtactcggat	6180

ggaagccggt	cttgctgac	aggatgatct	ggacgaagag	catcaggggc	ctcgctcg	6240
catgagccta	ccttcggcca	gaacagctag	tcctactaga	cctgcttctc	gtagtccccg	6300
tcgcgccagc	cgaactgttc	gccaggtca	aggcgcgcat	gcccgaacggc	gaggatctcg	6360
tcgtgaccca	agcgcggtcg	gcttgacaag	cggtccgagt	tccgcgcgta	cggtgctgccg	6420
ctcctagagc	agcactgggt	tggcgatgcc	tgcttgccga	atatcatggg	ggaaaatggc	6480
cgcttttctg	gattcatcga	ctgtggccgg	accgctacgg	acgaacggct	tatagtacca	6540
ccttttaccg	gcgaaaagac	ctaagtagct	gacaccggcc	ctgggtgtgg	cggaccgcta	6600
tcaggacata	gcgttggtta	cccgtgat	tgctgaagag	cctggcgccg	gacccacacc	6660
gcctggcgat	agtcctgtat	cgcaaccgat	gggcactata	acgacttctc	gaaccgccc	6720
aatgggctga	ccgcttctc	gtgctttacg	gtatcccgcc	tcccgattcg	cagcgcatcg	6780
ccttctatcg	ttaccgcact	ggcgaaggag	cacgaaatgc	catagcgccg	agggctaaag	6840
gtcgcgtagc	ggaagatagc	ccttcttgac	gagttcttct	gagcgggact	ctgggttctg	6900
aaatgaccga	ccaagcgacg	cccaacctgc	ggaagaactg	ctcaagaaga	ctcgccctga	6960
gaccccaagc	tttactggct	ggttcgctgc	gggttgagcg	catcacgaga	tttcgattcc	7020
accgccgcct	tctatgaaag	gttgggcttc	ggaatcgttt	tccgggacgc	gtagtgtctc	7080
aaagctaagg	tggcgccgga	agatactttc	caacccgaag	ccttagcaaa	aggccctgcg	7140
cggctggatg	atcctccagc	gcggggatct	catgctggag	ttcttcgccc	accccaactt	7200
gtttatttga	gccgacctac	taggaggtcg	cgccccatga	gtacgacctc	aagaagcggg	7260
tgggggttga	caaataacgt	gcttataatg	gttacaaata	aagcaatagc	atcacaaatt	7320
tcacaaataa	agcatttttt	tcacctgggt	cgaatattac	caatgtttat	ttcgttatcg	7380
tagtggttaa	agtgtttatt	tcgtaaaaaa	agtggaccaa	ctttccgcct	cagaagccat	7440
agagcccacc	gcacccccag	catgcctgct	attgtcttcc	caatcctccc	gaaaggcggg	7500
gtcttcggta	tctcgggttg	cgtaggggtc	gtacggacga	taacagaagg	gttaggaggg	7560
ccttgctgtc	ctgccccacc	ccacccccca	gaatagaatg	acacctactc	agacaatgcg	7620
atgcaatttc	ggaacgacag	gacgggggtg	ggtggggggg	cttatcttac	tgtggatgag	7680
tctgttacgc	tacgttaaag	ctcattttat	taggaaagga	cagtgggagt	ggcaccttcc	7740
agggccaagg	aaggcagcgg	ggaggggcaa	gagtaaaata	atccttttct	gtcacctcta	7800
ccgtggtaag	cttcagttcc	ttccgtgcc	cttcccgtt	acaacagatg	gctggcaact	7860
agaaggcaca	gtcagggctg	atcagcgagc	tctagcattt	aggtgacact	tgttgtctac	7920
cgaccgttga	tcttcctgtg	cagctccgac	tagtcgctcg	agatcgtaaa	tccactgtga	7980
atagaatagg	gccctctagg	atccgcggcc	gcttatcatg	tgagaagaat	cccaggcaca	8040
ggcatgataa	tatcttatcc	cgggagatcc	taggcgcggg	cgaatagtac	actcttctta	8100
gggtccgtgt	ccgtactatt	gctgggtgct	gaccactgcc	aggctgttgg	tatcagccag	8160
agacacattg	aggcagtatg	tccccgagcc	cgacccacga	ctggtgacgg	tccgacaacc	8220
atagtcggtc	tctgtgtaac	tccgtcatac	aggggctcgg	acccttcagt	atctgggtgca	8280
gaaccagctg	gcaggctggg	ctgggtagca	caggctggca	cagccgctgg	tgggaagtca	8340
tagaccacgt	ccttgctcag	cgtccgaccc	gacccatcgt	gtccgaccgt	gtcggcgacc	8400
gcagggggct	ggcacccctg	cgatgagatc	tccatgcagg	cttccttggg	cagcccgcct	8460
tggcaggaca	cgtcccccca	ccgtgggacc	gctactctag	aggtacgtcc	gaaggaaccc	8520
gtcgggcgga	accgtcctgt	cagtcagctc	aaatgcatcc	ccctcacccg	acggcacagc	8580
ctgcaggatc	tcggcacttt	caataccctg	gtcagtcgag	tttacgtagg	gggagtggcc	8640
tgccgtgtcg	gacgtcctag	agccgtgaaa	gttatgggac	gacaatgtcc	aggggtgacg	8700
aaaaggaacc	atatacgatac	agaacacaat	ccagggggac	ttgtctcttc	ctgttacagg	8760
tcccactgcc	ttttccttgg	tatagctatg	tcttgtgtta	ggtccccctg	aacagagaag	8820
accagcctta	aggtggctgt	accatccagc	agggggccca	gggaacctgt	aatactttcc	8880
gtagacatga	tggtcggaat	tccaccgaca	tggtaggtcg	tccccgggt	cccttgga	8940
ttatgaaagg	catctgtact	ttgagctggc	atctggacct	tcaggctcag	ggataggtag	9000
ctctctagct	gtggtctcca	cccactctgt	aactcgaccg	tagacctgga	agtccgagtc	9060
cctatccatc	gagagatcga	caccagaggt	gggtgagaca	agttgttacc	tgtgcagctg	9120
tggttccaga	aagcaccaca	attgatacct	ctgcaggtgt	catacctgta	tcaacaatgg	9180
acacgtcgac	accaaggctc	ttcgtggtgt	taactatgga	gacgtccaca	gtatggacat	9240
gcctctggag	ttgacatctc	tgccagtgtg	gtacccatga	cctctgaaac	tggcaccttc	9300
tcagggtgtca	cggagacctc	aactgtagag	acggtcacac	catgggtact	ggagactttg	9360
accgtggaag	agtcacacgt	tacctgtgct	ctctgcagtt	ggcatctgca	caggtgcagt	9420
gcttatgact	tcagtggttg	gcacctgcac	atggacacga	gagacgtcaa	ccgtagacgt	9480
gtccacgtca	cgaataactga	agtcaccaac	cgtggacgtg	agatgtggtt	ccagagggct	9540
ctgcagttgg	cgctgacca	ggtgtagtac	ccacaacttc	tgtagtaggc	tctacaccaa	9600
ggtctcccga	gacgtcaacc	gcggactggt	ccacatcatg	ggtgttgaag	acatcatccg	9660
acttgccag	ctgtggtgtt	aggggcctct	gcagttggcc	tgtgcccata	tgtggtgcct	9720
ggaactgggg	tgaaccggtc	gacaccacaa	tccccggaga	cgtcaaccgg	acacgggtag	9780
acaccacgga	ccttgacccc	aggagccaca	ggaggtgaga	ggaatggcag	cctgcaggac	9840

cacctgggca	gtgactgggc	caggctccag	tcctcgggtg	cctccactct	ccttaccgtc	9900
ggacgtcctg	gtggaccggt	cactgaccgg	gtccgaggtc	gtaagtatga	gtgaccacaa	9960
gtgcccagaga	gatcaggggt	ccactactgt	ctccaaagtc	ccaggtgtag	cattcatact	10020
cactgggtgtt	cacgggctct	ctagtcccaa	ggtgatgaca	gaggtttcag	ggtccacatc	10080
gagaggtcag	cttcagccag	atagccactg	gggtcatgga	gctggagggc	aaaggtcaga	10140
ggctgatttc	ctctccagtc	gaagtcgggt	tatcgggtgac	cccagtacct	cgacctcccg	10200
tttccagtct	ccgactaaag	tcaggaagtg	cttggtccct	ccatccaagg	cccgcaactg	10260
ggacacgctc	acggagaaaag	gcacctgggt	agtccttcac	gaacaagggg	ggtaggttcc	10320
gggcgttgac	cctgtgcgag	tgctcttttc	cgtggaccag	agtaatggtg	aaggctgagc	10380
tggaatgagc	aagaggcaca	tagctccggg	atccccggcg	atggtagaca	tcattaccac	10440
ttccgactcg	accttactcg	ttctccgtgt	atcgaggccc	taggggcccgc	taccactctgt	10500
gtcacttcca	tggtgtgtgt	gcccagcatt	gccctgcctg	tcccaatgct	cagcccagac	10560
actgggcccc	cagtgaagggt	accacacaca	cgggtcgtaa	cgggacggac	agggttacga	10620
gtcgggtctg	tgaccggggg	ctagaacttg	ccagtattgg	ccccaggtct	tccagacata	10680
aacaaagctt	ctcttctgag	accaagagcc	gatcttgaac	ggtcataacc	ggggtccaga	10740
aggtctgtat	ttgtttcgaa	gagaagactc	tggttctcgg	agatgggcaa	ggtccaccat	10800
cagggaagat	gcaggcatcg	tcagtttccct	ggggatacac	tggtgtgctt	tctacccgtt	10860
ccaggtggta	gtcccttcta	cgtccgtagc	agtcaaagga	cccctatgtg	accgacagga	10920
ccccacacct	ggctcccat	gatgatggta	ttgttgacct	agataacctg	cccatctggc	10980
aatacctttt	ggggtgtgga	ccgagggtaa	ctactaccat	aacaactggg	tctattggac	11040
gggtagaccg	ttatggaaaa	ggcttccagg	gaagttcaag	gcaatagaga	aggaggcatt	11100
tgcaccaatc	agtgtaggcc	catcattact	ccgaagggtc	cttcaagttc	cgttatctct	11160
tcctccgtaa	acgtgggttag	tcacatccgg	gtagtaatga	gaccttgagg	gacacttgac	11220
cacctctcca	gcagtcaagt	ctctgggctt	ctgtccactc	tggatacagc	ctggaactcc	11280
ctgtgaactg	gtggagaggt	cgtcagttca	gagacccgaa	gacaggtgag	acctatgtcg	11340
tgctgtttcc	aggctttggg	tctgagttgc	cttgagacac	caagccagtc	ctggtttctg	11400
ggtactttgc	acggacaagg	tccgaaacca	agactcaacg	gaactctgtg	gttcgggtcag	11460
gaccaagagc	ccatgaaagc	tcgagccttt	accggagagc	agggagaggc	tcttctgcgt	11520
gtagtggttg	tgcagagcct	catgcatcac	agctcggaaa	tgggcctctg	tccctctccg	11580
agaagacgca	catcaccaac	acgtctcggg	gtacgtagtg	ggagcatgag	aagacgttcc	11640
cctgctgcca	cctgctcttg	tccacgggtg	gcttgctgta	gaggaagaag	cctcgtaact	11700
ttctgcaagg	ggacgacggg	ggacgagaac	aggtgccact	cgaacgacat	ctccttcttc	11760
gagccgtcgg	agtccagcac	gggagggcgt	gtcttgtagt	tgttctccgg	ctgcccattg	11820
ctctcccact	ctcggcagcc	tcaggtcgtg	ccctccgcac	cagaacatca	acaagaggcc	11880
gacgggtaac	gagaggggtg	ccacggcgat	gtcgtcggga	tagaagcctt	tgaccaggca	11940
ggtcaggctg	acctggttct	tggtcagctc	ggtgccgcta	cagcgaccct	atcttcggaa	12000
actggtccgt	ccagtcgcag	tggaccaaga	accagtcgag	atcccgggat	gggggcaggg	12060
tgtacacctg	tggttctcgg	ggctgccctt	tggctttgga	gatggttttc	tagggcccta	12120
cccccgctcc	acatgtggac	accaagagcc	ccgacgggaa	accgaaacct	ctacaaaaag	12180
tcgatggggg	ctgggagggc	tttgttggag	accttgcact	tgtactcctt	gccattcagc	12240
cagtcctggt	agctaccccc	gacctctccg	aaacaacctc	tggaaagtga	acatgaggaa	12300
cggtaagtgc	gtcaggacca	gcaggacggt	gaggacgctg	accacacggg	acgtgctgtt	12360
gtactgctcc	tcccgcggct	ttgtcttggc	cgtcctgcca	ctcctgcgac	tggtgtgcca	12420
tgcacgacaa	catgacgagg	agggcgccga	aacagaaccg	attatgcacc	tccacgccgt	12480
ccacgtacca	gttgaacttg	acctcagggt	cttcgtggct	cacgtccacc	taatacgtgg	12540
aggtgcggca	gggtcatggt	caacttgaac	tggatgccca	gaagcaccga	gtgcaggtgg	12600
accacgcatg	tgacctcagg	ggtccgggag	atcatgaggg	tgtccttggg	ttttgggggg	12660
aagaggaaga	tggtgcgtac	actggagtc	ccaggccctc	tagtactccc	acaggaaccc	12720
aaaaccccc	ttctccttct	ctgacgggtc	ccccaggagt	tcagggtgctg	ggcacgggtg	12780
gcatgtgtga	gttttgtcac	aagatttggg	gactgccagg	ggggtcctca	agtccacgac	12840
ccgtgccacc	cgtacacact	caaaacagtg	ttctaaaccc	ctcaactttc	ttgtccacct	12900
tggtgttgct	gggcttgtga	ttcacgttgc	agatgtaggt	ctgggtgccc	gagttgaaaag	12960
aacaggtgga	accacaacga	cccgaacact	aagtgcacg	tctacatcca	gaccacgggg	13020
aagtcgctgg	agggcagcgt	caccacgctg	ctgagggagt	agagtccctga	ggactgtagg	13080
acagccggga	ttcgacgacc	tcccgtgcc	gtggtgcgac	gactccctca	tctcaggact	13140
cctgacatcc	tgtcggccct	aggtgtgcac	gccgtgggtc	agggcgccctg	agttccacga	13200
caccgtcacc	ggctcgggga	agtagtcctt	tccacacgtg	cggcgaccag	tcccgcggac	13260
tcaaggtgct	gtggcagtg	ccgagccctt	tcatcaggaa	gaccaggcag	cccaggggccg	13320
ctgtgcccc	agaggtgctc	ttggaggagg	gtgccagggg	gaagaccgat	ctgggtccgtc	13380
gggtcccggc	gacacggggg	tctccacgag	aacctcctcc	cacgggtccc	cttctggcta	13440
gggcccttgg	tgctagctga	ggagacgggtg	accagggttc	cctggcccca	gtagtcaacg	13500

```

ccccgggtccc cccgggaacc acgatcgact cctctgccac tgggtcccaag ggaccgggggt 13560
catcagttgc gggggccaggg ctctcgtaca gtaatacatg gcggtgtccg aggccttcag 13620
gctgctccac tgcaggtagg cgggtgctgat gagagcatgt cattatgtac cgccacaggc 13680
tccggaagtc cgacgaggtg acgtccatcc gccacgacta ggacttgctg gctgagatgg 13740
tgacctggcc ttggaaggac gggctgtata tggatcaga gtcaccagga cctgaacagc 13800
cgactctacc actggaccgg aaccttcctg cccgacatat accatagtct cagtggctcct 13860
tagatgatcc ccateccact caggcctttc ccgggcatct ggcgacacca gccgatccag 13920
taggtggtaa atctactagg ggtaggtgag gtccggaaag ggcccgtaga ccgcgtgggt 13980
cggctaggtc atccaccatt aactgtctcc agaaccctta caggagatcc tcagagactc 14040
cccgggcttt ttcacctctg ctccagactg ttgacagagg tcttgggaat gtcctctagg 14100
agtctctgag gggcccga aaagtggagac gaggtctgac caccagctgc acctcagagt 14160
ggacaccggt tgctgtggcc acgaggaaca ggatgataca gctccatccc gtggctcgacg 14220
tggagtctca cctgtggcca acgacaccgg tgctccttgt cctactatgt cgaggtaggg 14280
atgggtggcg caagcttggg tctccctata gtgagtcgta ttaatttcga taagccagta 14340
agcagtgggt taccaccgcc gttcgaaccc agagggatat cactcagcat aattaaagct 14400
attcggtcat tcgtcaccca tctctagtta gccagagagc tctgcttata tagacctccc 14460
accgtacacg cctaccgccc atttgctca agagatcaat cggctctctg agacgaatat 14520
atctggaggg tggcatgtgc ggatggcggg taaacgcagt atggggcgga gttgttacga 14580
cattttggaa agtcccgttg attttgggtg caaaacaaac tcccattgac taccocgct 14640
caacaatgct gtaaaacctt tcagggcaac taaaaccacg gttttgtttg agggtaactg 14700
gtcaatgggg tggagacttg gaaatccccg tgagtcaaac cgctatccac gccattgat 14760
gtactgcaa cagttacccc acctctgaac ctttaggggc actcagtttg gcgatagggtg 14820
cgggtaacta catgacgggt aaccgcatca ccatggtaat agcgatgact aatacgtaga 14880
tgtactgcca agtaggaaag tcccataagg ttggcgtagt ggtaccatta tcgctactga 14940
ttatgcatct acatgacggg tcatcctttc agggatttcc tcatgtactg ggcataatgc 15000
caggcggggc atttaccgtc attgacgtca atagggggcg tacttggcat agtacatgac 15060
ccgtattacg gtccgcccgg taaatggcag taactgcagt tatccccgc atgaaccgta 15120
atgatacact tgatgtactg ccaagtgggc agtttaccgt aaatactcca cccattgacg 15180
tcaatggaaa tactatgtga actacatgac ggttcacccg tcaaatggca tttatgaggt 15240
gggtaactgc agttaccttt gtccctattg gcgttactat ggggaacatac gtcattattg 15300
acgtcaatgg gcgggggctg ttgggcgggtc cagggataac cgcaatgata cccttgtatg 15360
cagtaataac tgcagttacc cgccccagc aaccgcgcag agccaggcgg gccatttacc 15420
gtaagttatg taacgcggaa ctccatatat gggctatgaa ctaatgaccc tcgggtccgcc 15480
cggtaaatgg cattcaatac attgcgcctt gaggtatata cccgatactt gattactggg 15540
cgtaattgat tactattaat aactagtcaa taatcaatgt caacgcgtat atctggcccc 15600
tacatcgcat gcattaacta atgataatta ttgatcagtt attagttaca gttgcgcata 15660
tagaccgggc atgtagcgta tctagtgtg gtttgtcaa actcatcaat gtatcttatt 15720
atgtctgtat accgtcgacc tctagctaga agatcaacac caaacagggt tgagtagtta 15780
catagaatag tacagacata tggcagctgg agatcgatct gcttggcgta atcatggtca 15840
tagctgtttc ctgtgtgaaa ttgttatccg ctcaaatcc cacacaacat cgaaccgcat 15900
tagtaccagt atcgacaaag gacacacttt aacaataggc gagtggttaag gtgtgttgta 15960
acgagccgga agcataaagt gtaaagcctg ggggtgcctaa tgagttagct aactcacatt 16020
aattgcgttg tgctcggcct tcgtatttca catttcggac cccacggatt actcactcga 16080
ttgagtgtaa ttaacgcaac cgctcactgc ccgctttcca gtcgggaaac ctgtcgtgcc 16140
agctgcatta atgaatcggc caacgcgcgg gcgagtgcag ggcgaaagggt cagccctttg 16200
gacagcacgg tcgacgtaat tacttagccg gttgcgcgcc ggagaggcgg tttgcgtatt 16260
gggcgtcttt ccgcttcttc gctcactgac tcgctgcgct cggtcgttcg cctctccgcc 16320
aaacgcataa cccgcgagaa ggcgaaggag cgagtgcact agcgacgcga gccagcaagc 16380
gctgcggcga gcggtatcag ctactcaaa ggcggttaata cggttatcca cagaatcagg 16440
ggataacgca cgacgccgct cgccatagtc gagttagttt ccgccatt atg cca ata 16497

```

Met Pro Ile

1

```

ggg gtc tta gtc ccc tat tgc gtg gaa aga aca tgt gag caa aag gcc 16545
Gly Val Leu Val Pro Tyr Cys Val Glu Arg Thr Cys Glu Gln Lys Ala
5 10 15

```

```

agc aaa agg cca gga acc gta aaa agg ccg cgt tgc tgg cgt ttt cct 16593
Ser Lys Arg Pro Gly Thr Val Lys Arg Pro Arg Cys Trp Arg Phe Pro
20 25 30 35

```


ttc ttg tac act cgt ttt ccg gtc gtt ttc cgg tcc ttg gca ttt ttc	16641
Phe Leu Tyr Thr Arg Phe Pro Val Val Phe Arg Ser Leu Ala Phe Phe	
40 45 50	
cgg cgc aac gac cgc aaa atc cat agg ctc cgc ccc cct gac gag cat	16689
Arg Arg Asn Asp Arg Lys Ile His Arg Leu Arg Pro Pro Asp Glu His	
55 60 65	
cac aaa aat cga cgc tca agt cag agg tgg cga aac ccg aca ggt atc	16737
His Lys Asn Arg Arg Ser Ser Gln Arg Trp Arg Asn Pro Thr Gly Ile	
70 75 80	
cga ggc ggg ggg act gct cgt agt gtt ttt agc tgc gag ttc agt ctc	16785
Arg Gly Gly Gly Thr Ala Arg Ser Val Phe Ser Cys Glu Phe Ser Leu	
85 90 95	
cac cgc ttt ggg ctg agg act ata aag ata cca ggc gtt tcc ccc tgg	16833
His Arg Phe Gly Leu Thr Ile Lys Ile Pro Gly Val Ser Pro Trp	
100 105 110 115	
aag ctc cct cgt gcg ctc tcc tgt tcc gac cct gcc gtc ctg ata ttt	16881
Lys Leu Pro Arg Ala Leu Ser Cys Ser Asp Pro Ala Val Leu Ile Phe	
120 125 130	
cta tgg tcc gca aag ggg gac ctt cga ggg agc acg cga gag gac aag	16929
Leu Trp Ser Ala Lys Gly Asp Leu Arg Gly Ser Thr Arg Glu Asp Lys	
135 140 145	
gct ggg acg gcc tta ccg gat acc tgt ccg cct ttc tcc ctt cgg gaa	16977
Ala Gly Thr Ala Leu Pro Asp Thr Cys Pro Pro Phe Ser Leu Arg Glu	
150 155 160	
gcg tgg cgc ttt ctc ata gct cac gct gta ggt gaa tgg cct atg gac	17025
Ala Trp Arg Phe Leu Ile Ala His Ala Val Gly Glu Trp Pro Met Asp	
165 170 175	
agg cgg aaa gag gga agc cct tcg cac cgc gaa aga gta tcg agt gcg	17073
Arg Arg Lys Glu Gly Ser Pro Ser His Arg Glu Arg Val Ser Ser Ala	
180 185 190 195	
aca tcc aat ctc agt tcg gtg taggtcgcttc gctccaagct gggctgtgtg	17124
Thr Ser Asn Leu Ser Ser Val	
200	
cacgaacccc ccgttcagcc cgaccgtaga gtcaagccac atccagcaag cgagggttcga	17184
cccgaacacac gtgcttgggg ggcaagtcgg gctggcctgc gccttatccg gtaactatcg	17244
tcttgagtcc aacccggtaa gacacgactt atcgccactg gcagcagacg cggaataggc	17304
cattgatagc agaactcagg ttgggccatt ctgtgctgaa tagcggtgac cgtcgtgcca	17364
ctggtaacag gattagcaga gcgaggtatg taggcggtgc tacagagttc ttgaagtggg	17424
ggcctacggg gaccattgtc ctaatcgtct cgctccatac atccgccacg atgtctcaag	17484
aacttcacca ccgatacta cggctacact agaagaacag tatttggtat ctgcgctctg	17544
ctgaagccag ttaccttcgg aaaaagtgat gccgatgtga tcttcttgtc ataaaccata	17604
gacgcgagac gacttcgggc aatggaagcc tttttcagtt ggtagctctt gatccggcaa	17664
acaaaccacc gctggtagcg gtggtttttt tgtttgaag cagcagtcac ccacgcagaa	17724
ctaggccggt tgtttggtgg cgaccatcgc caccaaaaaa acaaacgttc gtcgtcatta	17784
cgcgagaaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg tctgacgctc	17844
agtggataat gcgcgtcttt ttttcctaga gttcttctag gaaactagaa aagatgcccc	17904
agactgcgag tcacctacga aaactcacgt taagggattt tggcatgag attatcaaaa	17964
aggatcttca cctagatcct tttaaatgct tttgagtgc attccctaaa accagtactc	18024
taatagtttt tcctagaagt ggatctagga aaatttttaa aaatgaagtt ttaaataaat	18084
ctaaagtata tatgagtaaa cttgggtctga cagttaccaa tgcttaaatt tttacttcaa	18144

aatttagtta	gatttcatat	atactcattt	gaaccagact	gtcaatgggt	acgaatatca	18204
gtgaggcacc	tatctcagcg	atctgtctat	ttcgttcatc	catagttgcc	tgactccccg	18264
tcgtgttagt	cactccgtgg	atagagtgcg	tagacagata	aagcaagtag	gtatcaacgg	18324
actgaggggc	agcacaagat	aactacgata	cgggagggct	taccatctgg	ccccagtgc	18384
gcaatgatac	cgcgagaccc	acgctctcta	ttgatgctat	gccctccoga	atggtagacc	18444
ggggtcacga	cgttactatg	gcgctctggg	tgcgagaccg	gctccagatt	tatcagcaat	18504
aaaccagcca	gccggaaggg	ccgagcgcag	aagtggctct	gcaacttggc	cgaggctctaa	18564
atagtcgtta	tttggtcggg	cggccttccc	ggctcgcgtc	ttcaccagga	cgttgattat	18624
ccgcctccat	ccagtcctatt	aattgttgcc	gggaagctag	agtaagtagt	tcgccagtta	18684
atagtaata	ggcggaagga	ggtcagataa	ttaacaacgg	cccttcgatc	tcattcatca	18744
agcggtaaat	tatcaatgcg	caacgttggt	gccattgcta	caggcatcgt	ggtgtcacgc	18804
tcgtcgtttg	gtatggcttc	attcagacgc	ggtgcaacaa	cggtaacgat	gtccgtagca	18864
ccacagtgcg	agcagcaaac	cataccgaag	taagtcctcc	ggttcccaac	gatcaaggcg	18924
agttacatga	tcccccatgt	tgtgcaaaaa	agcgggttagc	tccttcgagg	ccaagggttg	18984
ctagttccgc	tcaatgtact	agggggtaca	acacgttttt	tcgccaatcg	aggaagggtc	19044
ctccgatcgt	tgtcagaagt	aagtgtggccg	cagtgttatc	actcatgggt	atggcagcac	19104
tgcataccag	gaggctagca	acagtcttca	ttcaaccggc	gtcacaatag	tgagtaccaa	19164
taccgtcgtg	acgtatattc	tcttactgtc	atgccatccg	taagatgctt	ttctgtgact	19224
ggtgagtact	caaccaagtc	attctgtaag	agaatgacag	tacggtaggc	attctacgaa	19284
aagacactga	ccactcatga	gttggttcag	taagacagaa	tagtgtatgc	ggcgaccgag	19344
ttgctcttgc	ccggcgtaaa	tacgggataa	taccgcgcca	catagctctt	atcacatacg	19404
ccgctggctc	aacgagaacg	ggccgcagtt	atgccctatt	atggcgcggt	gtatcgagaa	19464
ctttaaaagt	gctcatcatt	ggaaaacggt	cttcggggcg	aaaactctca	aggatcttac	19524
cgctgttctt	gaaattttca	cgagttagtaa	ccttttgcaa	gaagccccgc	ttttgagagt	19584
tcctagaatg	gcgacatgag	atccagtctcg	atgtaaccca	ctcgtgcacc	caactgatct	19644
tcagcatctt	ttactttcac	cagcgtactc	taggtcaagc	tacattgggt	gagcacgtgg	19704
ggtgactaga	agtcgtagaa	aatgaaaagt	gtcgcattct	gggtgagcaa	aaacaggaag	19764
gcaaaatgcc	gcataaagg	gaataagggc	gacacggaaa	tgttgaaaga	cccactcgtt	19824
tttgtccttc	cgttttacgg	cgttttttcc	cttattcccg	ctgtgccttt	acaactatac	19884
tcatactctt	cctttttcaa	tattattgaa	gcatttatca	gggttattgt	ctcatgagcg	19944
gatacatatg	agtatgagaa	ggaaaaagtt	ataataactt	cgtaaatagt	cccaataaca	20004
gagtactcgc	ctatgttatt	tgaatgtatt	tagaaaaata	aacaaatagg	ggttccgcgc	20064
acatttcccc	gaaaagtgcc	acctgaataa	acttacataa	atctttttat	ttgtttatcc	20124
ccaaggcgcg	tgtaaagggg	ctttttcacgg	tggactcgtc	gacggatcgg	gactagagca	20184
ttgggggggg	ggacagctca	gggctgcgat	ttcgcgccaa	acttgagcag	ctgcctagcc	20244
ctgatctcgt	aacccccccc	cctgtcagat	cccgcgcta	aagcgcgggt	tgaactcggc	20304
aatcctagcg	tgaaggctgg	taggatttga	tccccgctgc	catcatgggt	cgaccattga	20364
actgcagcgg	ttaggatcgc	acttccgacc	atcctaaaaat	aggggcgacg	gtagtaccaa	20424
gctggtaact	tgacgttcgt	cgccgtgtcc	caaaatatgg	ggattggcaa	gaacggagac	20484
ctaccctggc	ctccgctcag	gaacgaagca	gcggcacagg	gttttatacc	cctaaccggt	20544
cttgccctcg	gatgggaccg	gaggcgagtc	cttgctgttc	aagtacttcc	aaagaatgac	20604
cacaacctct	tcagtggaa	gtaaacagaa	tctggtgatt	atgggtcaag	ttcatgaagg	20664
tttcttactg	gtgttgga	agtcaccttc	catttgtctt	agaccactaa	tacccaagga	20724
aaacctgggt	ctccattcct	gagaagaatc	gacctttaaa	ggacagaatt	aatatagttc	20784
tcagtatcct	tttggacca	gaggtaagga	ctcttcttag	ctggaaattt	cctgtcttaa	20844
ttatatcaag	agtcattgaga	actcaaagaa	ccaccacgag	gagctcattt	tcttgccaaa	20904
agtttgatg	atgccttaag	acttatctct	tgagtttctt	ggtggtgctc	ctcagtaaaa	20964
agaacggttt	tcaaacctac	tacggaattc	tgaatatgaa	caaccggaat	tggcaagtaa	21024
agtagacatg	gtttggatag	tcggaggcag	ttctgtttac	caggaaactt	gttggcctta	21084
accgttcatt	tcactgttac	caaacctatc	agcctccgtc	aagacaaatg	gtccttgcca	21144
tgaatcaacc	aggccacctc	agactctttg	tgacaaggat	catgcaggaa	tttgaaaagt	21204
acacgtcggg	acttagttgg	tccggtggag	tctgagaaac	actgttctta	gtacgtcctt	21264
aaactttcac	tgtgcatttt	cccagaaatt	gatttgggga	aatataaaat	tctcccagaa	21324
taccaggcgg	tctctcttga	ggtccaaaaa	gggtctttta	ctaaacccct	ttatatatta	21384
agagggctct	atgggtccgc	aggagagact	ccaggtggag	gaaaaaggca	tcaagtataa	21444
gtttgaagtc	tacgagaaga	aagactaaca	ggaagatgct	ttcaagcctc	ctttttccgt	21504
agttcatatt	caaacttcag	atgctcttct	ttctgattgt	ccttctacga	aagttcttct	21564
ctgctccctt	cctaaagcta	tgcattttta	taagaccatg	ggacttttgc	tggctttaga	21624
tctttgaaga	gacgagggga	ggatttcgat	acgtaaaaat	attctggtac	cctgaaaacg	21684
accgaaatct	agaaactgaa	ggaaccttac	ttctgtgggt	tgacataatt	ggacaaacta	21744
cctacagaga	tttaaagctc	taaggctactt	ccttggaatg	aagacaccac	actgtattaa	21804

```

cctgtttgat ggatgtctct aaatttcgag attccaaaat ataaaatttt taagtgtata 21864
atgtgttaaa ctactgattc taattgtttg tgtatttttag attccattta tatttttaaaa 21924
attcacatat tacacaattt gatgactaag attaacaacac acataaaatc taaggtagct 21984
atggaactga tgaatgggag cagtgggtgga atgcctttta tgaggaaaac ctgtttttgct 22044
cagaagtgga taccttgact acttaccctc gtcaccacct tacggaaatt actcctttttg 22104
gacaaaacga gtcttcaaatt gccatctagt gatgatgagg ctactgctga ctctcaacat 22164
tctactcctc caaaaaagaa gagaaattta cggtagatca ctactactcc gatgacgact 22224
gagagttgta agatgaggag gttttttctt ctcttttgga gaagacccca aggactttcc 22284
ttcagaattg ctaagttttt tgagtcattgc tgtgttttag aatagaccat cttctggggg 22344
tcctgaaagg aagtcttaac gattcaaaaaa atccagtacg acacaaatca ttatctactc 22404
ttgcttgctt tgctatttac accacaaagg aaaaagctgc actgctatac aagaaaatta 22464
tggaatgag aacgaacgaa acgataaatg tgggtgttcc tttttcgacg tgacgatatg 22524
ttcttttaat acctttaata ttctgtaacc tttataagta ggcataacag ttataatcat 22584
aacatactgt tttttcttac tccacattat aagacattgg aaatattcat ccgtattgtc 22644
aatattagta ttgtatgaca aaaaagaatg aggtgtcagg catagagtgt ctgctattaa 22704
taactatgct caaaaattgt gtaccttttag ctttttaatt tgtaaagtcc gtatctcaca 22764
gacgataatt attgatacga gtttttaaca catggaaatc gaaaaattaa acatttgggg 22824
ttaataagga atatttgatg tatagtgcct tgactagaga tcataatcag ccataccaca 22884
tttgtacccc aattattcct tataaactac atatcacgga actgatctct agtattagtc 22944
ggtaggtgt aaacatgagg ttttacttgc tttaaaaaac ctcccacacc tccccctgaa 23004
cctgaaacat aaaatgaatg caattgctcc aaaatgaacg aaattttttg gaggggtgtg 23064
aggggggactt ggactttgta ttttacttac gttaacttgt tgttaacttg tttattgcag 23124
cttataatgg ttacaaataa agcaatagca tcacaaatth caaaaaaca acaattgaac 23184
aaataacgct gaattattac aatgtttatt tcgttatcgt agtggtttaaa gtgttttaaa 23244
gcattttttt cactgcattc tagttgtggt ttgtccaaac tcatcaatgt atcttatcat 23304
gtctggattt cgtaaaaaaa gtgacgtaag atcaacacca aacagggttg agtagttaca 23364
tagaatagta cagaccatct cccgatcccc tatggtgcac tctcagtaca atctgctctg 23424
atgccgcata gtttaagccag tatctgtaga gggctagggg ataccacgtg agagtcatgt 23484
tagacgagac tacggcgat caattcggtc atagacctcc ctgcttgtgt gttggagggtc 23544
gctgagtagt gcgcgagcaa aatttaagct acaacaaggc aaggctgagg gacgaacaca 23604
caacctccag cgactcatca cgcgctcgtt ttaaattcga tgttgttccg ttccgatgac 23664
cgacaattgc atgaagaatc tgcttagggg taggcgtttt gcgctgcttc gactggctgt 23724
taacgtactt cttagacgaa tcccaatccg caaacgcga cgaagc 23770

```

<210> 9

<211> 202

<212> PRT

<213> Homo sapiens

<400> 9

```

Met Pro Ile Gly Val Leu Val Pro Tyr Cys Val Glu Arg Thr Cys Glu
 1           5           10           15
Gln Lys Ala Ser Lys Arg Pro Gly Thr Val Lys Arg Pro Arg Cys Trp
          20           25           30
Arg Phe Pro Phe Leu Tyr Thr Arg Phe Pro Val Val Phe Arg Ser Leu
          35           40           45
Ala Phe Phe Arg Arg Asn Asp Arg Lys Ile His Arg Leu Arg Pro Pro
          50           55           60
Asp Glu His His Lys Asn Arg Arg Ser Ser Gln Arg Trp Arg Asn Pro
65           70           75           80
Thr Gly Ile Arg Gly Gly Gly Thr Ala Arg Ser Val Phe Ser Cys Glu
          85           90           95
Phe Ser Leu His Arg Phe Gly Leu Arg Thr Ile Lys Ile Pro Gly Val
          100          105          110
Ser Pro Trp Lys Leu Pro Arg Ala Leu Ser Cys Ser Asp Pro Ala Val
          115          120          125
Leu Ile Phe Leu Trp Ser Ala Lys Gly Asp Leu Arg Gly Ser Thr Arg
          130          135          140
Glu Asp Lys Ala Gly Thr Ala Leu Pro Asp Thr Cys Pro Pro Phe Ser
145          150          155          160
Leu Arg Glu Ala Trp Arg Phe Leu Ile Ala His Ala Val Gly Glu Trp

```

MXI-166CPRCE

				165					170				175		
Pro	Met	Asp	Arg	Arg	Lys	Glu	Gly	Ser	Pro	Ser	His	Arg	Glu	Arg	Val
			180					185					190		
Ser	Ser	Ala	Thr	Ser	Asn	Leu	Ser	Ser	Val						
		195					200								